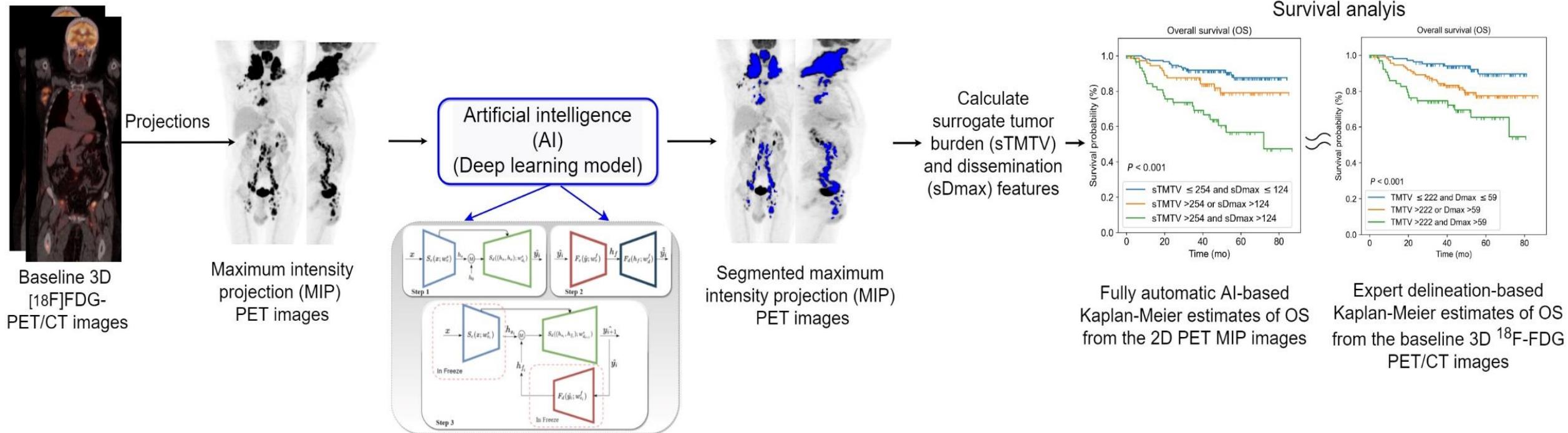


[18F]FDG-PET maximum intensity projections and artificial intelligence: a win-win combination to easily measure prognostic biomarkers in DLBCL patients

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Aim of the study: *To investigate whether TMTV and Dmax features could be replaced by surrogate features automatically calculated using an artificial intelligence (AI) algorithm from only two maximum intensity projections (MIP) of the whole-body 18F-FDG PET images.*

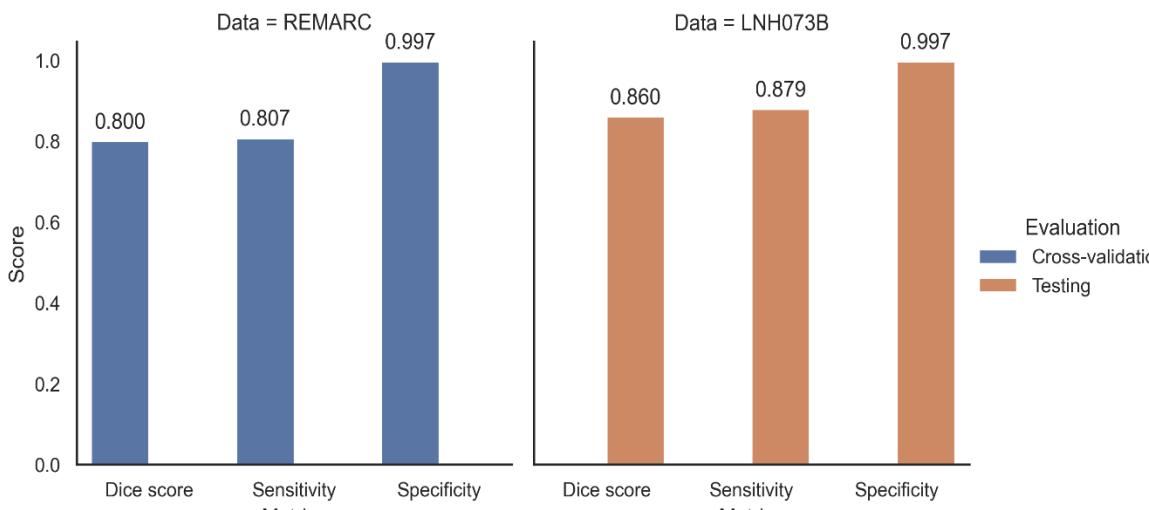
Data-centric AI to extract surrogate biomarkers from PET MIP images



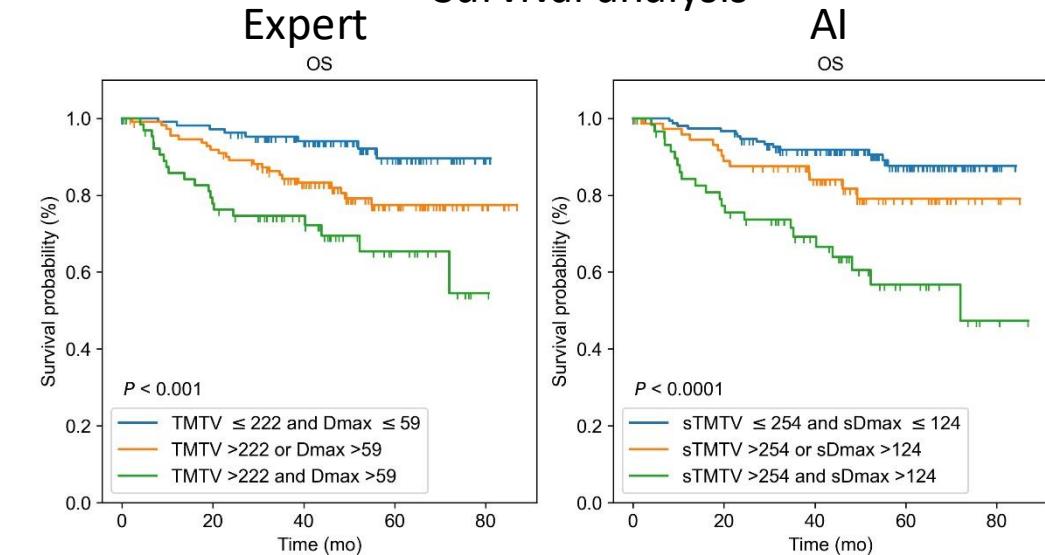
The AI was trained on an independent DLBCL patient and Tested on another independent cohort.
The code is publicly available: <https://github.com/KibromBerihu/ai4elife>

Results and Conclusions

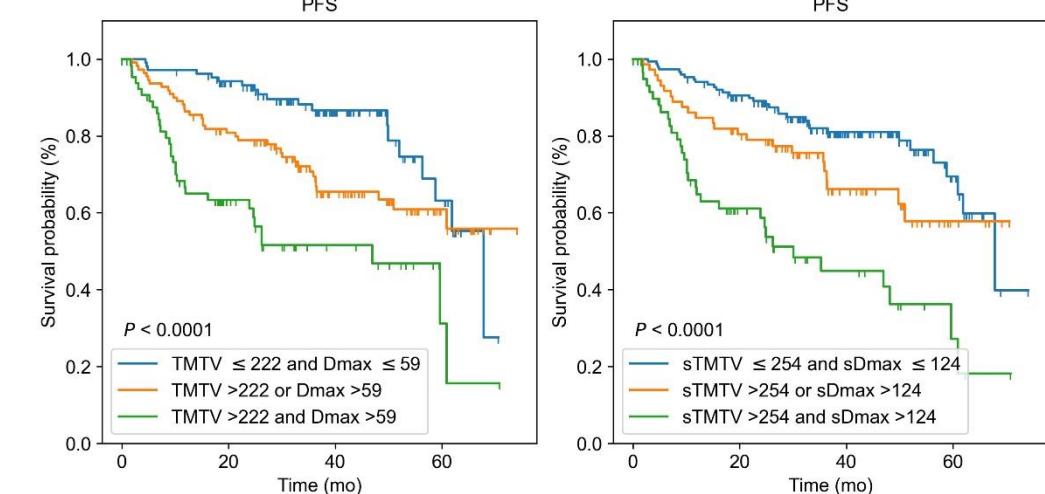
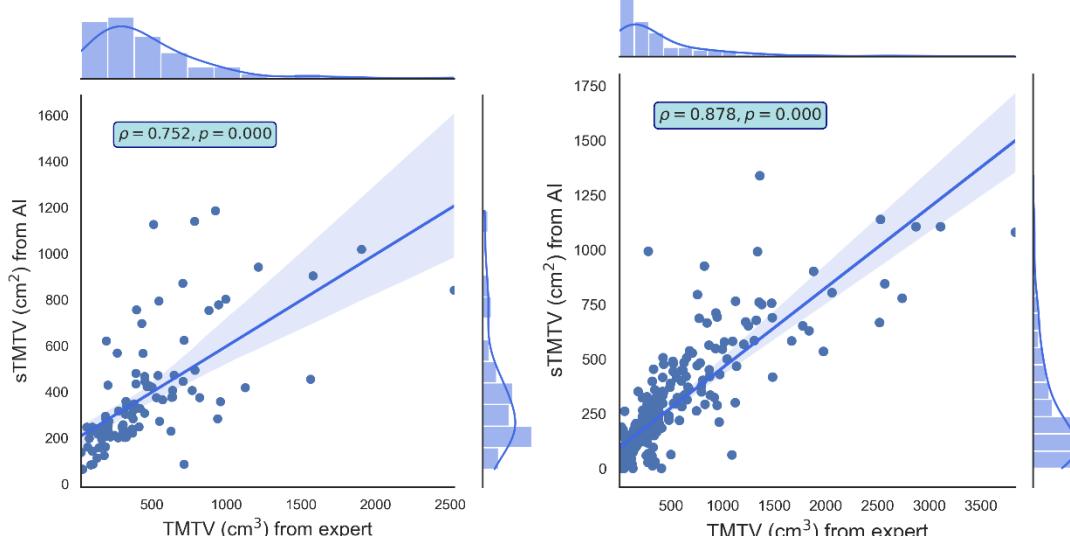
Segmentation results



Survival analysis



Expert and AI-driven feature's correlation



Conclusion: Surrogate TMTV and Dmax biomarkers automatically calculated using an AI algorithm from only 2 PET MIP images are prognostic biomarkers in DLBCL patients.